BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer
Dasarahalli Division
EMB

Name of Work :-	Construction of Strishakti Bhavan at Abbigere in ward no 12 Shettyhalli, Shettyhalli Sub division
Est Cost :-	100.00 Lakhs
Job Code :-	012-20-000008
AS :-	EE /DD/AS/212/2019-20 Date 12.02.2020
TS :-	CE /DZ/TS/140/2018-19 Date 22.02.2019
Work Order :-	EE /DD/WO/579/2019-20 Date 16.03.2020
Name of Contractor:-	Sri. Shankarappa M

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Name Of Contractor	Sri. Shankarappa M, #32, Nisarga Road, Muneshwara Nagara, Sunkadakatte Bengalru 560091
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Sl No	Description	Unit	No	Length	Width	Depth	Qty
2	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.						
	TOILET All round	Cum	1	13.50	0.90	1.00	12.15
			1	2.20	0.90	1.00	1.98
			1	50.00	0.90	1.50	67.50
	Sanitary		1	67.00	0.90	1.00	60.30
	Water supply						**141.93**
4	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.						
	TOILET All round	Cum	1	13.50	0.90	0.10	1.22
			1	2.20	0.90	0.10	0.20
			1	9.00	5.00	0.10	4.50
	Entrance						**5.91**
5	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.						
	TOILET All round	Cum	1	13.50	0.75	0.30	3.04
			1	2.20	0.75	0.30	0.50
			2	0.90	0.45	0.30	0.24
	Urinals						**3.78**
6	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.						
	TOILET All round	Cum	1	13.50	0.35	0.40	1.89
			1	2.20	0.35	0.35	0.27
							2.16

	Description	Unit	No	Length	Width	Depth	Qty
	RB 15.1.3 Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.						
	TOILET All round	Sqm	1	13.50		0.35	4.73
							4.73
9	KSRB 4-1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2						
	Building Sides	Cum					
	Vertical Wall		2	21.00	1.00	0.15	6.30
	Horizontal Wall		2	9.00	1.00	0.15	2.70
	Lintels		1	1.50	1.35	0.15	0.30
							9.30
10	KSRB 4.2.3: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles, and beams retaining walls, return walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.						
	Columns upto parapet	Cum	12	0.60	0.23	4.00	6.62
	Circle Columns		2	0.28		4.00	2.26
	Plinth Beam						
	TOILET All round		1	13.50	0.20	0.20	0.54
			1	2.20	0.20	0.20	0.09
	Lintel Beam						
	Vertical Wall		2	20.15	0.23	0.15	1.39
	Horizontal Wall		2	9.10	0.23	0.15	0.63
	Horizontal Wall		2	13.50	0.20	0.08	0.42
	Roof Beams						
	Vertical Wall		2	25.15	0.23	0.45	5.21
	Horizontal Wall		7	9.10	0.23	0.45	6.59
	Roof Slab		1	25.15	9.10	0.15	34.33
	TOILET All round		1	13.50	0.20	0.20	0.54
			1	2.20	0.20	0.20	0.09
	Slab		1	5.80	3.15	0.15	2.74
							61.45

Description	Unit	No	Length	Weight	Cost	Qty

12 SRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, hire of machinery complete as per specifications. Specification No. KBS 6.5.3 - TMT bars Fe 500.

No/l	Description	Dia	No/ Bars	Length	T.L	Weight/ Mtr	T.W
12	Columns						
12		25mm	4.00	4.00	216.00	3.85	831.60
12		20mm	4.00	4.00	216.00	2.47	533.52
		16mm	2.00	4.00	108.00	1.58	170.64
	Rings						
12		8mm	60.00	1.20	864.00	0.40	345.60
12			60.00	1.08	777.60	0.40	311.04
	Circle Columns						
2		20mm	4.00	4.00	36.00	2.47	88.92
2		16mm	5.00	4.00	40.00	1.58	71.10
	Rings						
2		8mm	40.00	1.00	80.00	0.40	32.00
	Toilet Plinth Beam						
1	Allround	12mm	5.00	13.00	81.00	0.89	71.91
1	Rings	8mm	75.00	1.20	82.00	0.40	33.00
1	Horizontal Beams	12mm	5.00	2.40	14.40	0.89	12.79
1	Rings	8mm	21.00	1.25	25.45	0.40	10.58
	Lintel Beam						
2	Vertical Beams	12mm	5.00	25.00	300.00	0.89	266.40
2	Rings	8mm	167.00	1.00	333.99	0.40	133.60
2	Horizontal Beams	12mm	5.00	3.20	108.80	0.89	96.57
2	Rings	8mm	46.00	1.00	92.00	0.40	36.80
	Roof Beams						
2	Vertical Beams	25mm	4.00	25.00	204.80	3.85	790.53
2		20mm	3.00	25.00	153.60	2.47	379.39
2		16mm	2.00	25.00	102.40	1.58	161.79
2		12mm	2.00	25.00	102.40	0.89	90.99
2		8mm	170.67	1.40	477.87	0.40	191.15
7	Rings	25mm	4.00	3.40	263.20	3.85	1015.95
7	Horizontal Beams	20mm	3.00	3.40	197.40	2.47	487.58
7		16mm	2.00	3.40	131.60	1.58	207.93
7		12mm	2.00	3.40	131.60	0.89	116.86
7		8mm	53.00	1.40	517.37	0.40	246.98
7	Rings						
	Toilet lintel Beam						
1	Allround	12mm	5.00	13.00	81.00	0.89	71.91
1	Rings	8mm	75.00	1.20	82.00	0.40	33.00
1	Horizontal Beams	12mm	5.00	2.40	14.40	0.89	12.79
1	Rings	8mm	20.00	1.25	25.20	0.40	10.08
	Toilet Beam						
1	Allround	15mm	5.00	13.00	81.00	1.58	127.98
1	Rings	8mm	58.50	1.22	75.85	0.40	30.14
7	Horizontal Beams	15mm	5.00	2.40	100.80	1.25	126.00
2	Rings	8mm	13.00	1.25	32.76	0.40	13.10
1	Roof Slab Main Bars	10mm	85.38	25.70	2225.23	0.62	1379.62
1	Dist Bars	10mm	201.80	5.20	1909.13	0.62	1183.80
	Roof Slab						
1	Roof Slab Main Bars	10mm	90.00	1.80	174.00	0.62	107.88
1	Dist Bars	10mm	99.00	3.13	122.84	0.62	75.79
							3723.61
				3723.61	/1000 =	3.72	
				Qty limited to		3.66	

	Description	Unit	No	Length	Width	Depth	Qty
13	RB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications.						
	Coloumns	Sqm	12	1.60		4.00	76.80
	Circle Columns		2	0.95		4.00	7.60
							84.40
				Qty Limited to			49.17
14	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications						
	toilet Plinth & Beam	Sqm					
	TOILET All round	2	1	13.50		0.25	6.75
	Horizantal Wall	2	1	2.20		0.25	1.10
	Lintel Beam						
	Vertical Wall	2	2	21.00		0.25	21.00
	Horizantal Wall	2	2	9.00		0.25	9.00
	TOILET All round	2	1	13.60		0.25	6.80
		2	1	2.20		0.25	1.10
	Roof Beams						
	Vertical Wall	2	2	25.30		0.75	75.90
	Horizantal Wall	2	8	9.00		0.75	108.00
	TOILET All round	2	1	13.60		0.45	12.24
		2	1	2.20		0.45	1.98
	Compound wll coping	2	2	107.50		0.15	64.50
							308.37
15	Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specifications.						
	Chajjas	Sqm	12	2.00	0.60		14.40
							14.40
							-12.60
				Qty Limited to			1.80
17	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons.						
	Roof Slab	Sqm	1	25.00	9.10		227.50
	Toilet slab		1	6.00	3.30		19.80
							247.30

	Description	Unit	No	Length	Width	Depth	Qty
18	Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqmm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.						
	Vertical Wall	Sqm	2	21.00		2.80	117.60
	Horizantal Wall		2	9.10		2.80	50.96
	Parapet wall allround		1	68.00		1.25	85.00
	Toilet Allround		1	13.60		2.40	32.64
			1	2.20		2.40	5.28
			1	16.60		0.25	4.15
	Sump allround		1	11.60		2.50	29.00
	Below stair		1	2.40		2.10	5.04
	Head room allround		1	7.50		2.40	18.00
	C W balance		1	11.00		1.60	17.60
	Deductions MD		-1	1.80		2.10	-3.78
	Door		-1	1.05		2.10	-2.21
	Windows		-11	1.80		1.20	-23.76
							335.53
19	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications.						
	Door	Sqm	2	8.10	0.13	0.15	0.32
	Toilet		2	6.00	0.13	0.15	0.23
							0.55
20	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures)						
	Door	Sqm	2	1.80		2.10	7.56
			1	1.05		2.10	2.21
	Toilet		2	0.90		2.10	3.78
							13.55
21	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.						
	GF	kgs	11	2.00		1.25	27.50
	FF		11	2.00		1.25	27.50
	Toilet Ventilators		4	0.75		0.75	2.25
							57.25
					21 Kgs /Sqm		**1202.25**

	Description	Unit	No	Length	Width	Depth	Qty
22	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using bin track window frame of size 122.2x31.75mm. for bottom section 1.1mm thick, weight 1.215 kg/m. sides and top section 1.1 mm thick weight 1.093 kg/m; shutter section comprising top and bottom section of size 40mmx18mm wall thickness 1.25mm weight 0.417 kg./m, shutter sideouter 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx18 mm wall thickness 1.1 mm. weight 0.469 kg/m; shutters mounted on nylon rollers with approved quality of fittings such as aluminium handles, tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading including cutting to required length, joints mitred subdividing the frame, tenonned and rivetted in the assembled frame to be stiffened with end clips at corners, angles etc.; fixed to the walls, lintels, floor beams;cills, as the case may be with necessary steel screws, raul plugs, in teak wood gattes including cutting masonry or concrete and making good the original surface using cement mortar; aluminium sections protected by removal of any rust and coated with greasy materials for non adhesion of mortar and other sticky materials; (this coating should be cleaned after installation) including cost of materials, fixtures, labour and TOM of machinery complete as per specifications using aluminium section anodized to 12 - 15 microns.						
	GF	Sqm	11	2.00	1.25	1.25	27.50
	FF		11	2.00	1.25	1.25	27.50
	Toilet Ventilators		4	0.60	0.75	0.75	1.80
							56.80
23	Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.						
	In side GF	Sqm	1	56.60		3.30	186.78
	FF		1	56.60		3.30	186.78
	Sump		1	11.60		2.40	27.84
	Toilets		2	8.80		2.40	42.24
	Columns		24	0.80		3.30	63.36
	Head room		1	6.00		2.40	14.40
	Deductions MD		-2	1.80		2.10	7.56
	Doors		-1	1.05		2.10	2.21
	Windows		-22	1.90		1.70	50.16
	Ventilators		-3	0.60		0.60	1.08
							460.40
				Qty Limited to			453.69
24	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.						
	ceiling GF	Sqm	1	19.70	8.60		169.42
	FF		1	25.00	9.00		225.00
	Toilet slab		1	5.80	3.15		18.27
							412.69
				Qty Limited to			390.72
25	Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications.						
	Qty Vide Item no 24 and 25	Sqm	1	844.41			844.41
							844.41

Description	Unit	No	Length	Width	Depth	Qty
oviding 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.						
Out side	Sqm	1	58.20		6.25	363.75
parapet all round		1	68.20		2.30	156.86
Toilet		1	13.60		2.50	34.00
Urinals		2	1.20		1.50	3.60
Deductions MD		-2	1.80		2.10	-7.56
Doors		-1	1.05		2.10	-2.21
Windows		-22	1.90		1.20	-50.16
Ventilators		-3	0.60		0.60	-1.08
						497.21

27	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 1200mm						
	GF & FF	Sqm	2	19.70	8.70		342.78
	Entrance Step		1	9.10	5.00		45.50
							388.28
				Qty Limited to			**383.60**

28	Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications.						
	Roof Slab	Sqm	1	25.00	9.00		225.00
							225.00
				Qty Limited to			**224.40**

29	Providing and fixing on wall surface 4.0 kg / sq.cm H.D.P.E. rain down water pipes 90 mm outer dia. approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications						
		2	10	5.50			110.00
		Rmt					**110.00**
				Qty Limited to			**100.00**

	Description	Unit	No	Length	Width	Depth	Qty
30	viding and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.						
		Each	2				2.00
							2.00
31	Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a single 15mm C.P brass pillar tap with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11						
		Sqm	4				4.00
							4.00
32	Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres five automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.						
	Urinals	Each	2				2.00
							2.00
33	Providing and fixing colour glazed tiles of size 300mmx450mm for walls with borders of size 300x100mm, set in Cement Mortar 1:3 and pointed with white cement with matching colour pigment with necessary curing, cleaning including providing and removing scaffolding wherever necessary etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for equipment, etc., complete as per specification.						
	Wall tiles		2	8.60		2.10	36.96
	Floor		2	2.20	2.40		10.56
	urinals		4.60			1.50	6.90
							54.42
34	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia.						
		Each	12				12.00
							12.00

EXECUTIVE ENGINEER, Bruhat Bangalore Mahanagara Palike, Dasarahalli Division, Bangalore-57
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	Description	Unit	No	Length	Width	Depth	Qty
	viding and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per						
35	directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 10cms x 7.5cms						
		Each	8				8.00
							8.00
36	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at required spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 20mm nominal OD pipes						
	CPVC	Rmt	1	150.00			150.00
							150.00
37	Providing and fixing in position brass stop cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification						
		Each	1	12.00			12.00
							12.00
38	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.						
		Each	1	6.00			6.00
							6.00
39	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. - for 32mm dia						
		Sqm	1	6.00			6.00
							6.00
40	Constructing brick masonry inspection chamber 500x700mm, and 450mm depth, (clear inside dimension) for pipeline with one or two inlets, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5 and cover with frame (light duty) 450x450mm						
		Sqm	1	4.00			4.00
							4.00

	Description	Unit	No	Length	Width	Depth	Qty
41	Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, incidental equipments and testing complete as per specifications.(For 1000 litre capacity) Specification						
		Sqm	1				2.00
42	Providing and applying painting in two coats with plastic emulsion paint of approved brand and shade to give an even approved shade after thoroughly brushing the surface, free from mortar dusts and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - With primer						
	Qty Vide Item no 24 &25	Sqm	1	244.41			244.41
43	Extra over Item 15-15.1 for painting two coats with plastic emulsion paint of approved brand and shade on ceiling and / or sloping roof as per specifications						
	Qty Vide Item no 24 &25	Sqm	1	244.41			244.41
44	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - With primer						
	Qty Vide Item no 26	Sqm	1	497.21			497.21
45	Extra for providing and applying every subsequent coat of waterproofing cement paint of approved brand and shade for Item no.15-16.1 cost of materials, labour, complete as per specifications.						
	Qty Vide Item no 26	Sqm	1	497.21			497.21
46	Applying priming coat over new wood surface and / or wood based surface after preparing the surface after throughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting liquid wood filler, for varnish including cost of materials, labour, complete as per specifications.						
	Door		2	1.80	2.10		17.01
		2.25					17.01
		Sqm		Qty Limited to			16.20
47	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.						
	Qty Vide Item no 46	Sqm	1	16.20			16.20

Sl No	Description	Unit	No	Length	Width	Depth	Qty
48	Extra over Item No. 15-17.6 for applying every subsequent coat of enamel paint to give an even shade after cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.						
	Qty Vide Item no 46	Sqm	1	16.20			16.20
							16.20
49	Providing and laying in position to required level or slope 230mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints,including cost of materials, labour charges complete as per specifications.						
		Sqm	1	50.00			50.00
							50.00
50	Providing and fixing Stainless steel staircase raling 304 Grade for staircase railling, balconies, ramps with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications.						
	Balcony	Sqm	1	16.20		1.05	17.01
	Staircase		1	7.80		1.05	8.19
							25.20

EXECUTIVE ENGINEER
Bruhat Bangalore Mahanagara Palike.
Dasarahalli Division, Bangalore-57

Asst. Engineer
Ward No 12

Asst.Executive Engineer
Shettyhalli Sub-Division